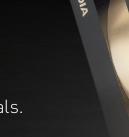


## **NVIDIA RTX A4500**

Powerful Performance for Professionals.



The NVIDIA RTX™ A4500 combines high performance, enterprise reliability, and the latest RTX technology to help you achieve your best work in realtime. Built on the NVIDIA Ampere architecture, the RTX A4500 combines 56 second-generation RT Cores, 224 third-generation Tensor Cores, and 7,168 CUDA® cores with 20GB of graphics memory to supercharge rendering, AI, graphics, and compute tasks. Connect two RTX A4500s with NVIDIA NVLink¹ to scale memory and performance with multi-GPU configurations², allowing professionals to work with memory intensive tasks such as large models, ultra-high resolution rendering, and complex compute workloads.

NVIDIA RTX professional graphics cards are certified with a broad range of professional applications, tested by leading independent software vendors (ISVs) and workstation manufacturers, and backed by a global team of support specialists. Get the peace of mind needed to focus on what matters with the premier visual computing solution for mission-critical business.

## **Features**

- > PCI Express Gen 4
- > Four DisplayPort 1.4a connectors
- > AV1 decode support
- > DisplayPort with audio
- > 3D stereo support with stereo connector
- » NVIDIA GPUDirect® for Video support
- NVIDIA Quadro® Sync II³ compatibility
- > NVIDIA RTX Experience™
- > NVIDIA RTX Desktop Manager software
- > NVIDIA RTX IO support
- > HDCP 2.2 support
- > NVIDIA Mosaic<sup>4</sup> technology
- > NVIDIA NVLink Technology

## **SPECIFICATIONS**

GPU memory  20GB GDDR6  Memory interface  320-bit  Memory bandwidth  640 GB/s  Error-correcting code (ECC)  NVIDIA Ampere architecture-based CUDA Cores  NVIDIA third-generation Tensor Cores  NVIDIA second-generation RT Cores  Single-precision performance  RT Core performance  RT Core performance  NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
Memory bandwidth  Error-correcting code (ECC)  NVIDIA Ampere architecture-based CUDA Cores  NVIDIA third-generation Tensor Cores  NVIDIA second-generation RT Cores  Single-precision performance  RT Core performance  RT Core performance  NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
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Tensor Cores  NVIDIA second-generation RT Cores  Single-precision performance  RT Core performance  Tensor performance  NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
RT Cores  Single-precision performance  RT Core performance  Tensor performance  NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
performance  RT Core performance  46.2 TFLOPS <sup>5</sup> Tensor performance  NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
Tensor performance 189.2 TFLOPS <sup>6</sup> NVIDIA NVLink Low profile bridges connect two NVIDIA RTX
NVIDIA NVLink  Low profile bridges connect two NVIDIA RTX
connect two NVIDIA RTX
A4500 GPUs <sup>1</sup>
NVIDIA NVLink bandwidth 112.5 GB/s (bidirectional
System interface PCIe 4.0 x16
Power consumption Total board power: 200 V
Thermal solution Active
Form factor 4.4" H x 10.5" L, dual slot, full height
Display connectors 4x DisplayPort 1.4
Max simultaneous displays 4x 4096 x 2160 @ 120 Hz, 4x 5120 x 2880 @ 60 Hz, 2x 7680 x 4320 @ 60 Hz
Power connector 1x 8-pin PCle
Encode/decode engines 1x encode, 1x decode (+AV1 decode)
VR ready Yes
Graphics APIs  DirectX 12 Ultimate, Shader Model 6.6, OpenGL 4.67, Vulkan 1.37
Compute APIs CUDA 11.6, DirectComput OpenCL 3.0

<sup>1</sup> NVIDIA NVLink sold separately. | 2 Connecting two RTX A4500 cards with NVLink to scale performance and memory capacity to 40GB is only possible if your application supports NVLink technology. Please contact your application provider to confirm their support for NVLink. | 3 Quadro Sync II card sold separately. | 4 Windows 10, Windows 11, and Linux. | 5 Peak rates based on GPU Boost Clock. | 6 Effective teraFLOPS (TFLOPS) using the new sparsity feature. | 7 Product is based on a published Khronos specification and is expected to pass the Khronos conformance testing process when available. Current conformance status can be found at www.khronos.org/conformance

Learn more

To learn more about the NVIDIA RTX A4500, visit www.nvidia.com/rtx-a4500/

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